PDR RID Report

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Document FOS PDR

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Category Name Design   **Actionee** HAIS

Sub Category

Subject Prototype Systems

Description of Problem or Suggestion:

Throughout the review, several prototype systems were mentioned. Are these prototypes 'throwaway' or are there plans to use selected prototype systems as the baseline for future development work?

Originator's Recommendation

Discuss any plans for using prototype systems as the baseline for future development efforts.

GSFC Response by: **GSFC Response Date**

HAIS Response by: D. Herring   **HAIS Schedule**   1/6/95

HAIS R. E.   A. Miller   **HAIS Response Date**   1/6/95

The FOS prototypes were instituted to get early feedback from the user community and mitigate software development risk. Four FOS prototypes have been developed to date: Planning and Scheduling, Command Management, the Instrument Support Toolkit (IST), and Decision Support. We plan to reuse software directly from the first three prototypes in future development efforts. In some cases, the prototypes will apply lessons learned from the prototypes to refine the operations concept and design in the developed system -- e.g., feedback from the user community for the IST prototype. These first three prototypes will be extended between PDR and CDR to include more interaction between them. This latest prototype phase will build on the previous prototype efforts completed to date, and take into account the current FOS design to coincide with planned future development efforts.

The Decision Support prototype is a proof-of-concept prototype to evaluate the use of expert systems for analysis purposes within the FOS. A primary objective of this prototype is to analyze and recommend how an expert system could be used by FOS. The next phase of this prototype will focus on the use of an expert system to perform Solid State Recorder analysis and recommendations. This application coincides with future FOS development efforts in support of the AM-1 spacecraft.

Status   **Closed**   **Date Closed**   **2/1/95**   **Sponsor**   **Johns**

******   **Attachment if any**   ******